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Municipality/Organization: TOWN OF BEDFORD

EPA NPDES Permit Number: MA 041028

MaDEP Transmittal Number: W-041280

Annual Report Number

& Reporting Period: No. 2: March 04-March 05

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Adrienne St. John

Title: Public Works Engineer

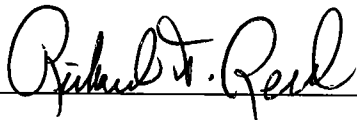
Telephone #: 781-275-7605

Email: adrienne@town.bedford.ma.us

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:



Printed Name: Richard T. Reed

Title: Town Manager

Date: April 27, 2005

Part II. Self-Assessment

The Town of Bedford has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except the following provisions:

- Part 1.B.2(e)vi The Town of Bedford has researched the most recent Endangered and Threatened Species list and found 20 species to be present in the Town. The effects of the Town's discharges has not been determined at this time.**
- Part 1.B.2(k)(l) The Town is planning to perform water quality testing to identify sources and the extent of bacteria at sites along the Shawsheen River.**

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
1-2	5 th grade curriculum	DPW/SuAsCo	Teach in 5 th grade class	Curriculum has been developed. Seeking a class to teach.	Teach the class.
Revised					
1-3	Website	DPW	Have in place by 7/05	Web site is currently under development, and will include general info to public, designated contacts, homeowner tips, etc.	Have in place by 7/05.
Revised					
Revised					
Revised					
Revised					
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
2-1	Stormwater Display	DPW	3 months at library, Town Hall, schools	Has been at library, DPW, & Town Hall. Currently at Hartwell Forest.	Place in schools.
Revised					
2-2	Local Stormwater Committee	DPW	Form by 12/04	Existing Drainage Committee expands focus to include stormwater quality.	Expand membership.
Revised					
2-3	Stormwater Meetings	DPW/SW Committee	Meet 3x/year	N/A	Convene three times.
Revised					
Revised					
Revised					
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
3-1	Purchase GPS Equipment	DPW	In place by 7/04	Equipment purchased	N/A
Revised					
3-2	Map SW outlets > 6"	DPW, MRWC	75% capture rate	Continue (32 outlets mapped)	Continue
Revised					
Revised					
Revised					
Revised					
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
4-1	Develop awareness of construction site issues	DPW, Con Com, Code	Write guidelines, distribute to all builders with a permit	N/A	Develop guidelines
Revised					
4-2	Control construction site waste	Code, Con Com, DPW	Reduce litter, erosion, dust, sediment	DPW requires weekly trench paving of disturbed areas of utility/road projects. Notified Route 3 of erosion, sediment and trash issues along highway in Bedford.	Continue to monitor construction projects.
Revised					
Revised					
Revised					
Revised					
Revised					

4a. Additions

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
5-1	Develop stormwater by-law	Selectmen, Planning, Cons., DPW	In place by 12/05	DPW staff attended two trainings including information on stormwater by-laws	Develop By-law
Revised					
5-2	Promote infiltration	Planning, DPW, Con Com	No increase in flooding levels or locations	DPW advocates for infiltration on all proposed developments. 12 homes equipped with infiltration. DPW recommended compact vehicle parking at 4 large-scale developments to reduce paved areas and increase infiltration.	Continue
Revised					
Revised					
Revised					
Revised					
Revised					

5a. Additions

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
6-1	Street Sweeping, CB Cleaning	DPW	2 x per year in critical areas	Continued program. Swept all 80 miles of roadways.	Continue.
Revised					
6-2	Inspect older sewer mains	DPW, MWRA	TV 1 mile per year	Approximately 3,000 LF inspected.	Inspect 60,000 LF.
Revised					
6-3	Promote/use alternative fertilizers and pesticides	Con. Com, DPW	Reduce nitrogen loading	Using fertilizer on as-needed basis only.	Continue
Revised					
6-5	Site better snow dump	DPW, Con Com.	Locate by 12/05	Site is located on Springs Road near the VA Hospital.	
Revised					
Revised					
Revised					

6a. Additions

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	Y
Annual program budget/expenditures	(\$)	\$10,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	15%
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	Supported
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	700 FT
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	8
▪ community participation	(%)	10
▪ material collected	(tons or gal)	400
School curricula implemented	(y/n)	No

Construction

Number of construction starts (>1-acre)	(#)	4
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100
Site inspections completed	(# or %)	30
Tickets/Stop work orders issued	(# or %)	1
Fines collected	(# and \$)	0
Complaints/concerns received from public	(#)	1

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	90
Site inspections completed	(# or %)	15
Estimated volume of stormwater recharged	(gpy)	600,000

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	2
Total number of structures cleaned	(#)	1600
Storm drain cleaned	(LF or mi.)	1500 lf
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	35 tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Compost
Cost of screenings disposal	(\$)	\$15,000

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
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Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control	X			
▪ Post-Development Stormwater Management				
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

Mapping and Illicit Discharges

Outfall mapping complete	(%)	35
Estimated or actual number of outfalls	(#)	200
System-Wide mapping complete	(%)	50
Mapping method(s)		
▪ Paper/Mylar	(%)	50
▪ CADD	(%)	10
▪ GIS	(%)	40
Outfalls inspected/screened	(# or %)	35
Illicit discharges identified	(#)	0
Illicit connections removed	(#) (est. gpd)	1.25 MGD 6 times per yr
% of population on sewer	(%)	91
% of population on septic systems	(%)	9

Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	2
Qty. of sand/debris collected by sweeping	(lbs. or tons)	500 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Compost
Cost of sweepings disposal	(\$)	\$28,000
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	0

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	25%
▪ Herbicides	(lbs. or %)	N/A
▪ Pesticides	(lbs. or %)	25%

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	Y
Manual control spreaders used	(y/n)	Y
Automatic or Zero-velocity spreaders used	(y/n)	Y
Estimated net reduction in typical year salt application	(lbs. or %)	0
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	N